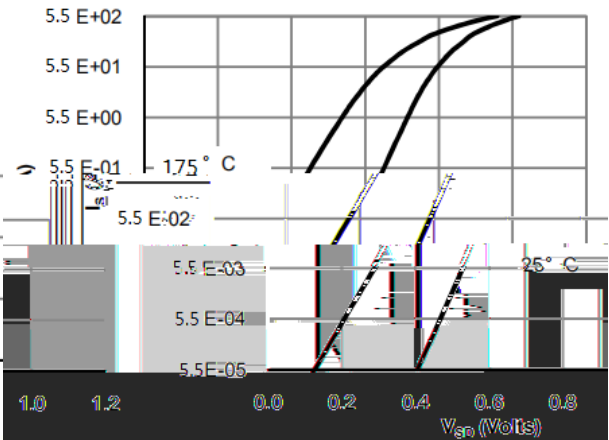
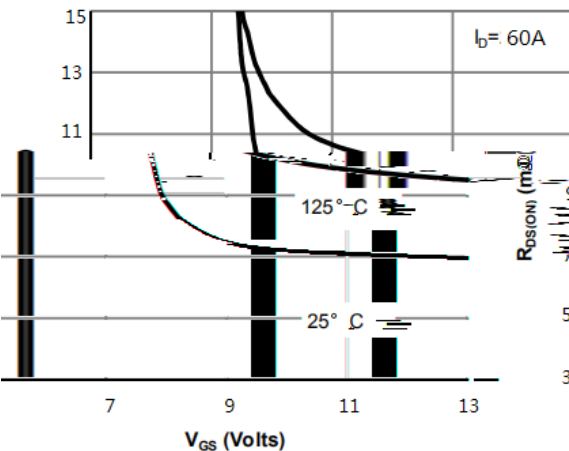
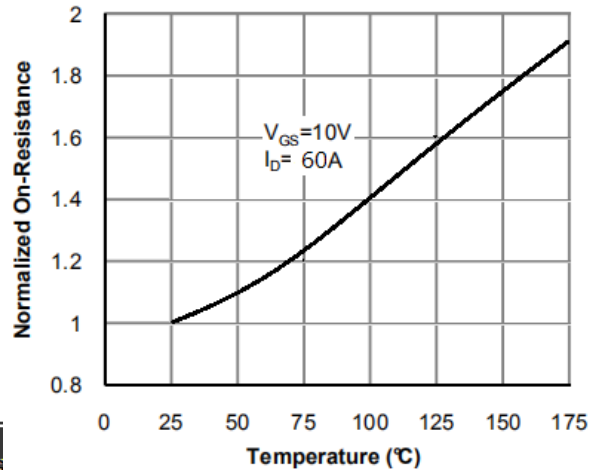
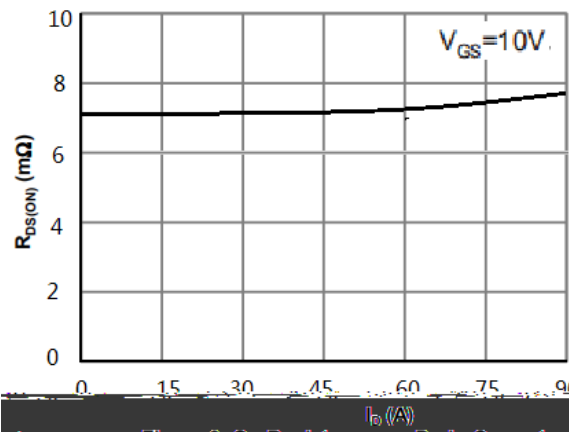
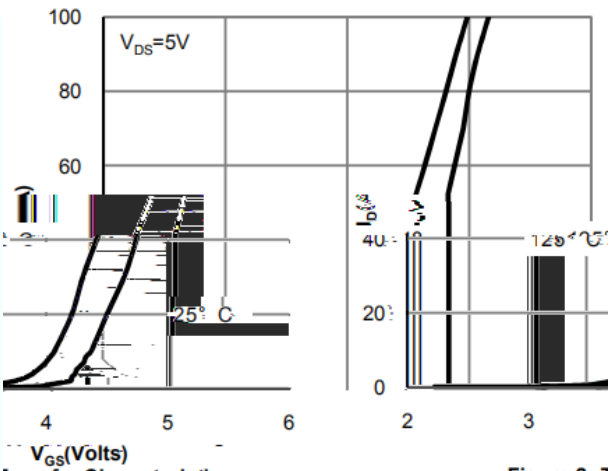
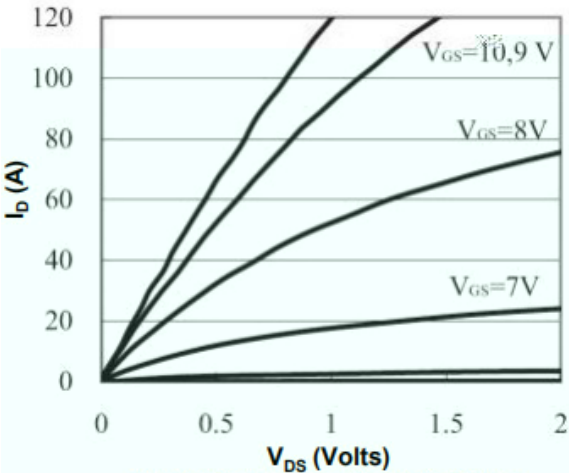


Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	60	V
Drain Current	$I_D(T_c=25^\circ\text{C})$	120	A
	$I_D(T_c=100^\circ\text{C})$	88	A
Pulsed Drain Current	I_{DM}	480	A
Gate-Source Voltage	V_{GSS}	± 20	V
Avalanche Current	I_{AR}	76.7	A
Avalanche energy $L=0.5\text{mH}$	E_{AS}	1200	mJ
Total Power Dissipation	$P_D(T_c=25^\circ\text{C})$	300	W
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 175	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Zero Gate Voltage Drain Current	BV_{DSS}	$V_{GS}=0V$ $I_D=250\mu A$	60	66		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=60V$ $V_{GS}=0V$			1	μA
Gate-Body Leakage Current Forward	I_{GSS}	$V_{GS}=\pm 20V$ $V_{DS}=0V$			± 0.1	μA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=250\mu A$	2		4	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V$ $I_D=60A$		7	8	m Ω
Forward Transconductance	g_{FS}	$V_{DS}=10V$ $I_D=60A$	60			S
Forward On Voltage	V_{SD}	$V_{GS}=0V$ $I_S=60A$			1.3	V
Input Capacitance	C_{iss}	$V_{DS}=25V$ $V_{GS}=0V$ $f=1\text{MHz}$		2800		pF
Output Capacitance	C_{oss}			1030		
Reverse Transfer Capacitance	C_{rss}			520		
Total Gate Charge	Q_g	$V_{DD}=30V$ $I_D=60A$ $V_{GS}=0V-10V$		110		nC
Gate-Source charge	Q_{gs}			13		
Gate-Drain charge	Q_{gd}			52		
Gate Series Resistor	R_g	$f=1.0\text{MHz}$		0.8		Ω
Turn-On Delay Time	$t_{d(on)}$	$V_{DD}=30V$ $I_D=60A$ $V_{GS}=10V$ $R_G=2.5\Omega$		23		ns
Turn-On Rise Time	t_r			38		
Turn-Off Delay Time	$t_{d(off)}$			54		
Turn-Off Fall Time	t_f			26		



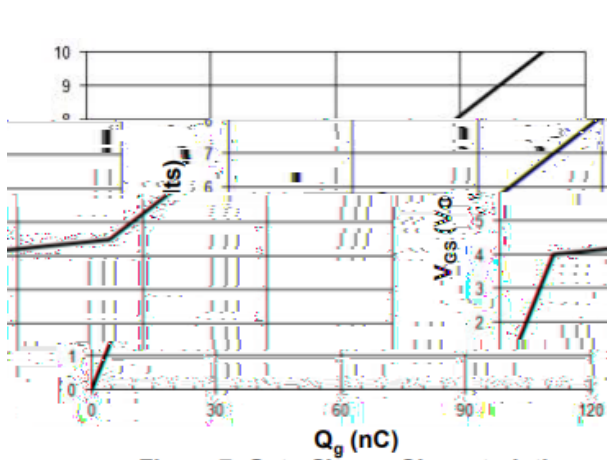


Figure 7: Gate-Charge Characteristics

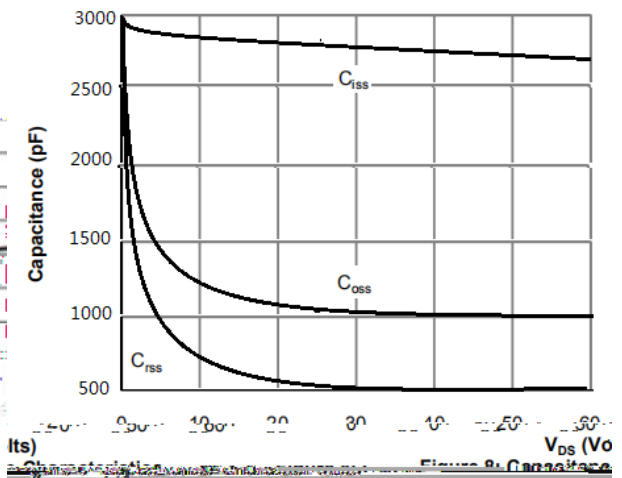


Figure 8: Capacitance

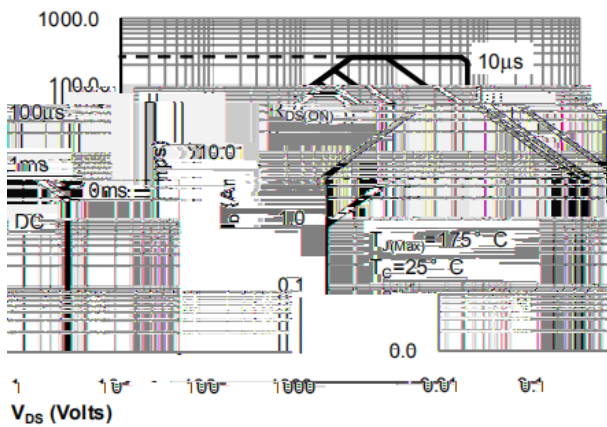


Figure 9: Maximum

Forward Biased Safe Operating Area

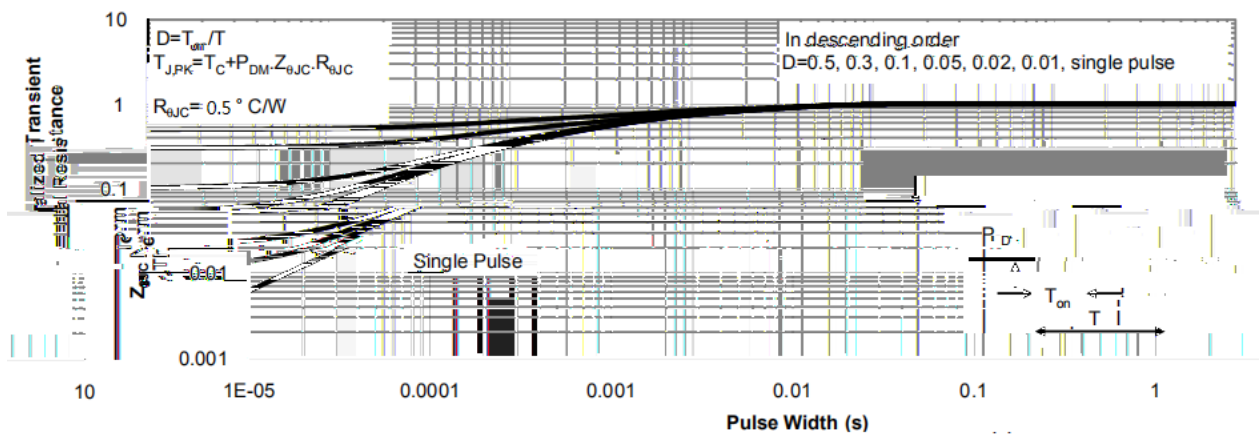
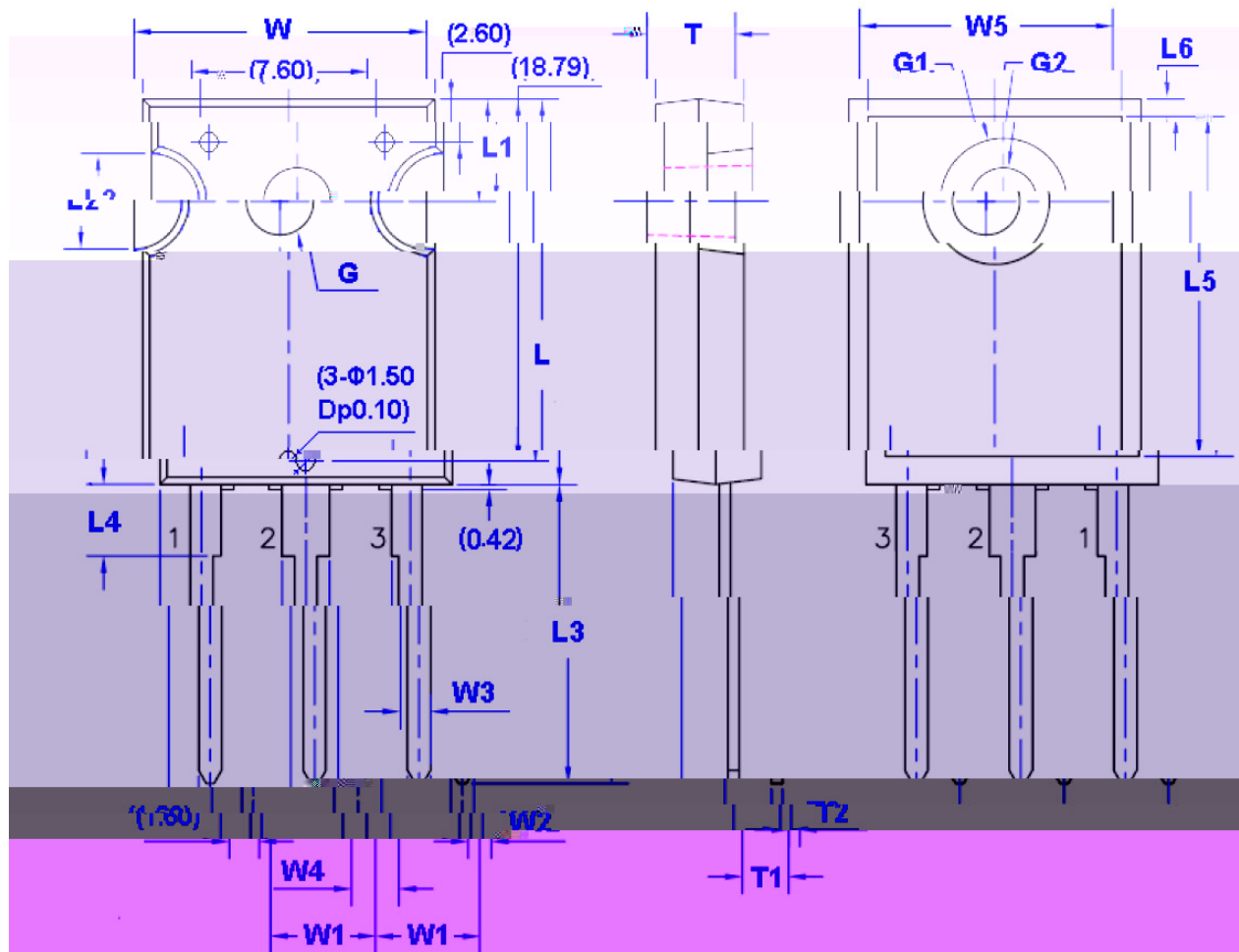


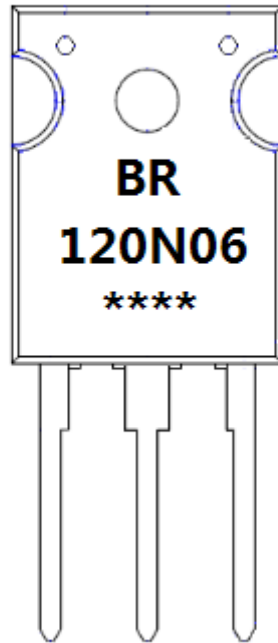
Figure 10 : Normalized Maximum Transient Thermal Impedance



(单位: mm)

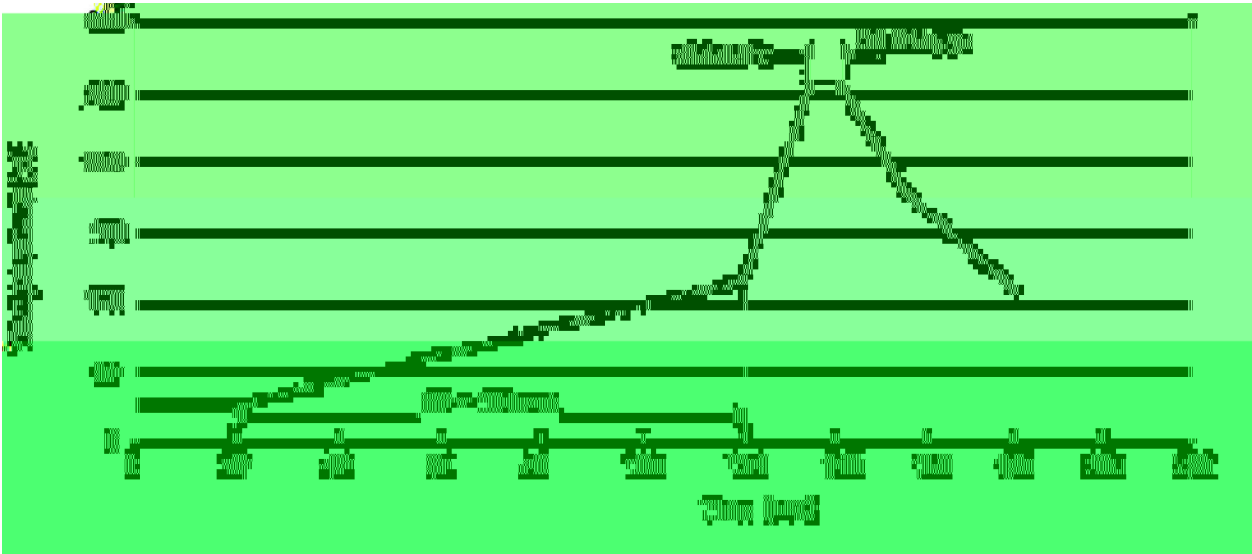
尺寸	符号	尺寸	符号	尺寸	符号	尺寸	符号	尺寸
Max		Min	Max	Min	Max	Min	Max	Min
10.35	W	10.35	W5	12.60	L4	3.65	L2	0.50
5.55(TYP)	W1	20.32	L1	12.08	G1	3.51	G2	3.51
1.53	W3	1.77	L3	4.96	T	4.58	T1	2.29
2.42	W4	2.66	L4	16.25	T2	2.66	T3	2.66

注: 以上数据均为参考值, 尺寸不包含毛刺及模具溢料。



BR
120N06

Note:
BR:



- 1

25 150

60 90sec;
- 2

255±5

5±0.5sec;
- 3

2 10 /sec.
- Note:

1.Preheating:25~150 , Time:60~90sec.

2.Peak Temp.:255±5 , Duration:5±0.5sec.

3. Cooling Speed: 2~10 /sec.

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ TUBE

Package Type	Units					Dimension		(unit mm ³)
								× ×